



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/003364

A. CLASSIFICATION OF SUBJECT MATTER		
IPC7 H04N 5/225		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC7 H04N, G02B, G03B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Korean Patents and Applications for invention since 1975		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
NPS " camera, module, focuse, zoom, magnet, coil"		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 2000-0044156 A (SAMSUNG ELECTRIC CO.) 2000-07-15	1-2
A	SEE THE WHOLE PAPER	3-78
A	US 5978161 A (LEMKE) 1999-11-02 CAIMS, FIG 8-10	1-78
A	WO0045209 A1 (MATSUSHITA ELECTRIC CO.) 2000-08-03 SEE THE WHOLE PAPER	1-78
A	JP 62-180337 A (ASAHI OPTICAL CO.) 1987-08-07 ABSTRACT	1-78
P,A	JP2004-77968 A (KYOCETA CORP.) 2004-03-11 SEE THE WHOLE PAPER	1-78
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search		Date of mailing of the international search report
22 MARCH 2005 (22.03.2005)		22 MARCH 2005 (22.03.2005)
Name and mailing address of the ISA/KR		Authorized officer
 Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		JANG, Hyun Geun Telephone No. 82-42-481-5775 

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2000-0044156 A	2000-07-15	NONE	
US 5978161 A	1999-11-02	DE 19718189 A1	1997-11-27
WO 0045209 A1	2000-08-03	US 6456444 B1	2002-09-24
	CN 1294693 T	2001-05-09	
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	KR 2001-0034688 A	2001-04-25	
JP 62-180337 A	1987-08-07	NONE	
JP 2004-77968 A	2004-03-11	NONE	